

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE		PAGE OF PAGES 1 6		
2. AMENDMENT/MODIFICATION NO. 0006		3. EFFECTIVE DATE 28 JAN 99		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE		N68462		7. ADMINISTERED BY (If other than Item 6) CODE			
PROCURING CONTRACTING OFFICE NAVAL RESEARCH LABORATORY (NRL-SSC) ATTN: CODE 3235.AS STENNIS SPACE CENTER, MS 39529-5004							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, country, State and ZIP Code)				<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO. N00173-98-R-AS01 <input checked="" type="checkbox"/> 9B. DATED (SEE ITEM 11) 11 DEC 98 10A. MODIFICATION OF CONTRACT/ORDER NO. 10B. DATED (SEE ITEM 13)			
TO ALL OFFERORS  CODE FACILITY CODE							

# 11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers tended. ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 02 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

# 12. ACCOUNTING AND APPROPRIATION DATA (If required)

# 13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input checked="" type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103 (b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

# 14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

This amendment makes changes to the solicitation and provides responses to questions from potential offerors.

(SEE CONTINUATION PAGES)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)		16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	
15C. DATE SIGNED		16C. DATE SIGNED	

1. The following item is added to Section B-1:

"OPTION 3

"0004            Fabrication and delivery of additional copies of the dual band reconnaissance camera in accordance with Section C.

"000401        Reports, data, software and documentation as set forth in Exhibit A (DD 1423)"

2. The following sentence is added to Section C-1:

"The work under optional CLIN 0004 shall be in accordance with Paragraph C.6.4 of Attachment (1), Statement of Work."

3. The following paragraph is added to Section F-2:

"(d) If the Government exercises its option for additional copies of the camera delivered under CLIN 0001, the first optional unit shall be delivered in accordance with (c), above, no later than six months after the date the option is exercised or six months after delivery of the initial unit under CLIN 0001, whichever date is later. Subsequent optional units, if required, shall be delivered at the rate of one per month commencing one month after delivery of the first optional unit."

4. The final sentence of H-6, OPTION(S), is revised to read as follows:

"The Contracting Officer may unilaterally exercise the option by written notice to the Contractor anytime prior to the completion of the contract or within the three-month period commencing with the completion of CLIN 0001."

5. The first sentence of Section L-11 (a), GENERAL INSTRUCTIONS, paragraph (5) is revised to read:

"Offerors are required to propose on Option 1 (CLIN 0002) and Option 3 (CLIN 0004)."

6. The following paragraph is added to Section L-11 (c), VOLUME 11 - COST PROPOSAL:

"(9) The cost proposal for Option 3, CLIN 0004, must reflect the estimated cost and fixed fee (if any) for each additional copy of the camera. The offeror may propose a single estimated cost and fixed fee for each additional copy which the Government will multiply by the number of additional copies required. Or the offeror may propose a different estimated cost and fixed fee for each of the nine additional copies (i.e., the first additional unit has an estimated cost of \$\_\_\_\_\_ and a fixed fee of \$\_\_\_\_\_, the second additional unit has an estimated cost of \$\_\_\_\_\_ and a fixed fee of \$\_\_\_\_\_, etc.)"

7. Section M-3 is revised by deleting the current provision in its entirety and inserting the following in its place:

"M-3 OPTIONS

"The Government will evaluate offers for award purposes by adding the estimated cost to the Government for Option 1 (CLIN 0002) and the estimated cost to the Government for three additional copies of the camera to be delivered under Option 3 (CLIN 0004) to the estimated cost to the Government for the basic requirement (CLIN 0001). Option 2 (CLIN 0003), if proposed by the successful offeror, will be evaluated separately. Evaluation of options will not obligate the Government to exercise the option(s)."

8. The following changes are made to Attachment 1, Statement of Work:

(a) In C.1.0 (b) the value of NIIRS 7 is changed to read: "NIIRS 7 = 1.0 ft/cy".

(b) The final sentence of C.1.0 (b) is revised to read: "The Ground Sample Distance (GSD) for each pixel's ground subtense (as results from pan scanning or step-stare) shall be defined in this Statement of Work (SOW) as the square root of the product of the projected pixel distance on the surface parallel to the flight direction and the projected pixel distance on the surface perpendicular to the flight direction."

(c) C.2.3 (b) is revised to read "The Contractor shall provide support for testing of the camera in Pod for two periods of about two weeks each." C.2.3 (b)(1), (2) and (3) remain unchanged.

(d) C.2.4 (b) is revised to read "The Contractor shall provide support for testing of the camera in a F-14 TARPS Pod for two periods of about two weeks each." C.2.4 (b)(1), (2) and (3) remain unchanged.

(e) Table 1 in C.4.1.1 (d) is revised by deleting the two rows beginning "Medium Alt standoff, day" and "Medium Alt standoff, night" and replacing them with the following:

Requirement	Threshold	Objective
Medium Alt standoff, day, night, maximum slant range [Most distant pixel along optical centerline] (nautical miles)	15	20

(f) The following paragraph C.6.4 is added:

"C.6.4 Option 3 **Additional Copies for Field Testing**

"The Government may require delivery of up to nine additional copies of the camera developed under this contract. A User's Operation and Maintenance Manual shall be provided with each additional copy of the camera."

9. Data Item No. A007 of Exhibit A (DD 1423) is revised as follows:

(a) Block A is revised to read: "000101 and 000401".

(b) The following sentence is added to Block 16: "A User's Operation & Maintenance Manual shall be provided with each optional additional copy of the camera in accordance with para. C.6.4 of the SOW."

10. The following answers to questions from potential offerors are provided:

Question 1. There is a conflict between Section L-11(a)(5) which does not require bidders to propose on all options (Option 2) and Section M-3 which states that the price will be evaluated based on all options.

Answer 1. See 7, above.

Question 2. There is a conflict between SOW paragraph C.2.3 (b) which asks for two weeks of support and paragraph C.8.2.2 which asks for a total of four weeks of support.

Answer 2. See 8 (c), above.

Question 3. There is a conflict between SOW paragraph C.2.4 (b) which asks for two weeks of support and paragraph C.9.3.2 which asks for a total of four weeks of support.

Answer 3. See 8 (d), above.

Question 4. Table 4 of SOW paragraph C.4.9.3 entitled "INSTALLED VIBRATION ENVIRONMENTS" has "TBD" listed in the four places marked "g rms", and each of the four corresponding PSD spectra are blank. Please provide these data.

Answer 4. The camera is required to operate in a pod that has not yet flown under an F-18E/F over the flight profiles projected for the reconnaissance missions. Exact data will be measured and made available as soon as possible, but is not yet available. The proposal should be based on a vibration environment that is 50% more stressing than the MIL Standard for military aircraft.

Question 5. SOW paragraph C.8.0, entitled "Option 1 F-18 pod INTEGRATION AND FLIGHT TEST SUPPORT", requires that the reconnaissance camera be flight tested in a GFE pod for the F-18 aircraft. Please provide sufficient technical data concerning the F-18 pod to permit an assessment of both the physical and thermal constraints to be placed upon the installed camera.

Answer 5. The camera is required to operate in a pod that has not yet flown under an F-18E/F. Exact data will be measured and made available as soon as possible, but is not yet available. The proposal should be based on the projected space listed in the SOW. Exact mounting will be jointly developed during PDR.

Question 6. SOW paragraph C.4.1.2 requires the camera to be hard mounted in the Bomb bay Equipment Pallet (BEP) of a P-3 aircraft. Please provide sufficient data concerning the BEP to allow the P-3 installation to be addressed in the proposal.

Answer 6. It is believed that offerors have sufficient information on the P-3 pallet to prepare a proposal in response to this solicitation. During performance of the contract, the pallet for the P-3 will be available for inspection at pre-arranged times at PAX.

Question 7. Section L-11(b)(4)A. entitled "Experience" states in part that contractors "... should clearly show the relationship between the offeror's experience and the tasks required. The experience to be addressed include ... evaluation of moving test imagery." Please provide a definition and/or example of precisely what NRL considers the statement "evaluation of moving test imagery" to mean.

Answer 7. NRL wishes the offeror to address its experience with laboratory techniques that simulate moving imagery to evaluate the forward motion compensation techniques employed in the proposed camera.

Question 8. Section L-11(b)(3) Expected Performance of the Camera states in part that "The proposal should discuss user measures such as flight worthiness, platform integration, camera capabilities in the tactical pod, camera environmental restrictions, and aircraft maneuver restrictions." 1) The phrase "flight worthiness" as a "user measure" could mean such areas as the ability of the camera to survive arrested landings or high G maneuvers, or this phrase could mean such areas as the process planned to obtain flight worthiness releases. 2) The phrase "platform integration" as a "user measure" could mean such areas as the physical installation on the aircraft, or this phrase could mean such areas as integration with operator interfaces in the cockpit. 3) The phrase "camera capabilities in a tactical pod" as a "user measure" could mean the general functional capabilities of the camera in the F-18 and F-14 pod installation envelope as defined generally in the solicitation. Alternatively, this phrase could require specific performance predictions of the camera in the GFE F-18 and F-14 pods that account for the pod window characteristics and pod environment (e.g., temperature, vibration, maneuvers). If the alternative interpretation is correct, then a specific definition of the pod environment and window characteristics must be added to the solicitation. Please provide NRL's specific intent in each area.

Answer 8. "Flight worthiness" means the ability of the camera to operate in a pod on military aircraft such as F-18 during arrested landings, etc. "Platform integration" refers to physical integration to the aircraft or pod. This does not refer to the cockpit. The camera interface electrically is as defined in the SOW. "Camera capabilities in a tactical pod" refers to functional and performance capabilities. If specific window requirements are required, the proposal should state explicitly the assumptions made. The vibration information for the F-18 pod is not yet available. For the proposal, one can use a vibration environment that is 50% more stressing than the Mil Standard for military aircraft.

Question 9. Please review the definition of NIIRS category 7 in C.1.0 (b) of the SOW.

Answer 9. See 8(a), above.

Question 10. Please review the definition in the final sentence of C.1.0 (b) of the SOW.

Answer 10. See 8(b), above.